Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

- 1. (currently amended): A method of sputtering a tungsten or tungsten-containing film from a tungsten target onto a semiconductor wafer including using krypton or xenon as a sputter gas, wherein the resistivity of the tungsten film is less than 11μ ohm cm.
- 2. (currently amended): A method as claimed in claim 1 wherein the deposition takes place in a vacuum chamber with a krypton pressure of less than 10mTorr 10mT.
- 3. (currently amended): A method as claimed in claim 2 wherein krypton pressure is less than <u>6mTorr</u> 6mT.
 - 4. (cancelled)
- 5. (currently amended): A method of sputtering a tungsten or tungsteneontaining film from a tungsten target onto a semiconductor wafer including using krypton or xenon as a sputter gas, wherein the power supplied to the target is greater than about 3.5 watts per cm².
- 6. (currently amended): A method of sputtering a tungsten or tungsteneontaining film from a tungsten target onto a semiconductor wafer including using krypton or xenon as a sputter gas, wherein the wafer is placed on a platen during deposition and the platen temperature is between 200°C and 400°C.

7. (previously presented): A method of sputtering a tungsten or tungsten-containing film from a tungsten target onto a semiconductor wafer including using krypton or xenon as a sputter gas, wherein the platen is negatively DC biased.

8. (cancelled)

- 9. (previously presented): A method as claimed in claim 1 wherein the sputter gases further include argon.
- 10. (previously presented): A method as claimed in claim 9 wherein the ratio of argon to krypton or xenon is selected to minimize stress in the deposited film.
- 11. (previously presented): A method of forming a tungsten/tungsten nitride stack on a wafer including sputtering a tungsten nitride film on a wafer and sputtering a tungsten film on the tungsten nitride film wherein the two sputtering processes are performed in a single chamber using a single target, wherein the wafer is on a platen and the platen temperature is maintained substantially the same for the two sputter processes.

12. (cancelled)

13. (currently amended): A method of forming a tungsten/tungsten nitride stack on a wafer including sputtering a tungsten nitride film on a wafer and sputtering a tungsten film on the tungsten nitride film wherein the two sputtering processes are performed in a single chamber using a single target, wherein the tungsten film is sputtered from a tungsten target onto a semiconductor wafer including using krypton or xenon as a sputter gas in both of the two sputtering processes.

- 14. (currently amended): A method of forming a tungsten/tungsten nitride stack on a wafer including sputtering a tungsten nitride film on a wafer and sputtering a tungsten film on the tungsten nitride film wherein the two sputtering processes are performed in a single chamber using a single target, wherein the tungsten nitride film is deposited by reactive sputtering and the sputter gases include nitrogen and krypton.
- 15. (previously presented): A gate structure formed by the method of claim 11.